

What is claimed is:

1. An extract of black tea comprising theaflavin-3-gallate and theaflavin-3'-gallate.

2. A composition comprising the extract of claim 1 in combination with at least one other compound selected from a rosemary extract, a Mexican Bamboo extract, a Huzhang extract, resveratrol, a green tea extract, an orange peel extract, or a hydroxylated or methoxylated resveratrol analog.

3. A method for inhibiting tumor cell growth in an animal comprising administering to an animal the extract of claim 1.

4. A method for preventing or treating disease associated with Cox-2 gene expression in an animal comprising administering to an animal an effective amount of an extract of claim 1 and wherein said disease is selected from the group consisting of cancer, inflammation, and arthritis.

5. The method of claim 4 wherein the extract is administered in combination with at least one additional compound selected from a rosemary extract, a Mexican Bamboo extract, a Huzhang extract, resveratrol, a hydroxylated resveratrol analog, a green tea extract, an orange peel extract, or a methoxylated resveratrol analog.

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